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TECHNICAL MEMORANDUM NO. 1

ADDENDUM TO FINAL PHASE 1 RFI/RI WORK PLAN

ROCKY FLATS PLANT WALNUT CREEK PRIORITY DRAINAGE OPERABLE UNIT NO. 6 (OU 6)

U.S. DEPARTMENT OF ENERGY ROCKY FLATS PLANT

GOLDEN, COLORADO

ENVIRONMENTAL RESTORATION PROGRAM

SEPTEMBER 1992

ADMIN RECORD

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1.0 INTRODUCTION

The Purpose of this Technical Memorandum is to eliminate unnecessary effort presently specified in the OU 6 Work Plan. Additionally, surface water sampling along streams and surface water flow measurements at existing gauging stations are proposed to enhance the Human Health Risk Assessment and contaminant fate and transport modeling which will be presented in the RFI/RI report.

2.0 BEDROCK MONITORING WELLS

Five bedrock monitoring wells are specified along North Walnut Creek and its unnamed tributary (Figure 7-4) in the OU 6 Work Plan. The intent for specifying the wells at the time the Work Plan was written was solely to characterize bedrock for the Site-Wide Bedrock Characterization Program; not for the Remedial Investigation of OU 6. The IAG does not require that these wells be installed along North Walnut Creek, furthermore there is no record or recollection of any agency personnel from DOE, EPA or CDH requesting these five wells. The Site Wide Bedrock Characterization Program Manager no longer needs these five wells. It is therefore recommended that the five bedrock wells be deleted.

Although the above information is considered ample basis for deleting the five wells, the following additional information is presented to support the justification.

The OU 6 Work Plan requires two bedrock monitoring wells in the North Walnut Creek drainage if a water bearing sandstone unit is encountered when drilling the alluvial wells (Section 7.2.2, Stage 3 of the Work Plan). The bedrock wells would be paired with alluvial wells located downgradient of terminal ponds A-4 and B-5.

Existing bedrock monitoring wells in North Walnut Creek (wells 1486 and 1686) are upgradient of the proposed locations of the five bedrock wells and down gradient of a source area and do not show the presence of contaminants above background levels within the bedrock aquifer (see appendix).

The existing bedrock wells, combined with the two proposed conditional bedrock wells described above are considered adequate to monitor the bedrock aquifer along the North Walnut Creek drainage for the purpose of the Phase 1 RFI/RI.

3.0 ALLUVIAL MONITORING WELLS

The IAG and the OU 6 Work Plan require two alluvial wells immediately downgradient of each dam at ponds A-4 and B-5 (Table 5, pg.13 of the IAG). The Work Plan requirement is a reflection of the IAG requirement. EG&G considers the two wells immediately downgradient of each of the dams a redundancy. One of the wells at each location should be deleted. The well locations are shown on the attached Work Plan Figures 7-2 and 7-3.

The Work Plan requires that a bedrock monitoring well be paired with the alluvial well if sandstone is encountered at the bedrock interface. It is proposed that a single alluvial well be installed at each of the dams with the corresponding bedrock well installed if sandstone is encountered.

4.0 AMBIENT AIR MONITORING STATIONS

A current review of the OU 6 Work Plan ambient monitoring efforts by EG&G, DOE, EPA, and CDH indicates that the three proposed ambient air samplers should be eliminated from the field sampling effort. Short term and worker protection air sampling will be performed as indicated in the Plan for Prevention of Contaminant Dispersion (PPCD) and site specific health and safety plans. Baseline ambient air data for this OU can be obtained from the existing plantsite Radiological Ambient Air Monitoring Program (RAAMP), which includes samplers in the Walnut Creek drainage and units at downwind locations S-35, S-36, S-37, S-38, and S-39 (Figure AIR).

In addition to this RFP sampling effort, CDH operates ambient air samplers in the vicinity of this OU and at downwind locations (D-5, D-6, E-2 and E-3, X-1 and X-2). With no remediation efforts currently planned for this location the proposed samplers would provide data which would not serve any specific purpose.

The operation of generator powered samplers is costly and it would duplicate current baseline data collection efforts. Additionally, neither the IAG nor the agencies have requested the three ambient air monitoring stations.

5.0 SURFACE WATER SAMPLING ALONG STREAMS

It is recommended that surface water samples be obtained from specific areas of the stream segments throughout the Walnut Creek Drainage. The samples are necessary to determine if contaminants are being transported from the IHSSs. These samples will allow the assessment of the surface water pathway to potential human receptors for the Human Health Risk Assessment.

Additionally, contemporaneous flow measurements will be obtained at established gauging stations. Most of the analytical data and all of the flow measurement data will be obtained from the Site Wide Surface Water Sampling and the Storm Event Sampling Programs. All the data will be acquired twice, separated by approximately one month. Since some of the water sampling stations are often dry; the sampling and flow measurements will be made during sufficient rainfall events to assure a complete data set for modeling purposes. The second sampling and flow measurement data collection event will be for confirmation purposes.

Neither the IAG nor the OU 6 Work Plan specify any surface water sampling from the streams. The OU 6 Work Plan does show existing surface water sampling stations that are part of the Site Wide Surface Water Sampling effort (Figure 2-2 of the Work Plan). However the sample locations are presented for Site Characterization and not specified in the OU 6 Field Sampling Plan. Sampling at almost all of the locations shown on Figure 2-2 have been discontinued.

The recommended surface water sampling locations are presented on the attached Figure 2-2R. All of the sample locations are at previously established Site Wide sampling stations. These locations are accessible, appropriately located and eliminate the cost of surveying new positions.

6.0 RADIATION SURVEY

The IAG and the OU 6 Work Plan require that a radiation survey be performed over IHSS 165, the Triangle Area (Figure 7-1). It is recommended that the radiation survey specified for IHSS 165 be limited to the eastern most portion of the IHSS which is located east of the PSZ fence where the soil is not covered with gravel. The remainder of the IHSS is covered with gravel. The gravel has been compacted and there are no noticeable voids within the covered area. Compacted gravel of minimal thickness forms an effective barrier to gamma radiation. Therefore a radiation survey over the gravel covered area would be futile and costly.

Although the date that the gravel was placed in the IHSS is unknown, it was sometime after 1978 with periodic additions likely as part of normal maintenance. The last known excavation of contaminated soil occurred in 1973 and perhaps 1974. A FIDLER survey performed in April 1975 indicated no new hot spots and no contaminated soil was removed (Historical Release Report, June 1992).

7.0 ALTERNATE RADIATION SURVEY INSTRUMENT

Presently the Work Plan specifies that an HPGe instrument be used for all the radiation surveys. The HPGe is a replacement for the FIDLER instrument originally specified. Although the superior HPGe is the preferred instrument it may be necessary to substitute the FIDLER instrument to avoid delays. The entire HPGe capability may not be available for field use when needed.

FIGURES

APPENDIX

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Location ST QC	Sample Number	te D ID Group C	emic	Result	Unit Error	Qual	D.LMT VA RN1 RNZ RN3 RN4 VResult	VQual VDET
:	GW018811T	91 N TRG DMETNOCLP	NIT	33.90		1		
	GW018811T	91 N TRG SMETCLPTCL	MUNIMO	1830.00	NG/L	* ,	≤:	•
	GW0188111	91 N TRG SMETCLPICL	NOW I	20.00	UG/L	æ <u>≅</u>	00 JA /	-
	GW0188111	O1 N TRG SMETCLFICE	AKOENIC	2,70	167	5 a	5 >	
	CW0100111	O1 M TRG SMFTCIPTCI	MIL I I AG	00	7/50	• =	· > > > > > > > > > > > > > > > > > > >	
	GU0188111	91 N TRG SMETCLPTCL	CADMIUM	3.30	UG/L	8	5 JA 7	ɔ
	GW018811T	91 N TRG SMETCLPTCL	CALCIUM	65400.00	ne/L		-	;
	GW018811T	91 N TRG SMETCLPTCL	CHROMIUM	20.90	UG/L	ı	/ Yr ol	> :
1486 GV	GW0188111	SMETCLPTCL	COBALT	5.50 21	7/90	oo a	25 18 7	> =
	GW0188111	O1 N ING SMEICLFICE	ANIOE CONTRACTOR	01.0	7 PO 08/1	s <u>=</u>	10 C)
	CU0188111	O1 N TDG CMETCIPICE	ייטר סאר	1490,00	167	•	> 001	
1486	GU0188111	91 N TRG SMETCLPTCL	AD	1.00	ng/L	Þ	> ×	
	GW018811T	91 N TRG SMETCLPTCL	MAGNESIUM	15700.00	1/50		\$000 A	
	GW018811T	91 N TRG SMETCLPTCL	MANGANESE	49.00	UG/L		15 V	
1486 GW	GW018811T	91 N TRG SMETCLPTCL	MERCURY	0.20	UG/L	-	> 0	
	GW018811T	91 N TRG SMETCLPTCL		17.00	ng/L)	× 07	
	GW018811T	91 N TRG SMETCLPTCL	POTASSIUM	4060.00	06/L	m :	A 0005	
1486 GU	GW018811T	91 N TRG SMETCLPICL	ILENIUM	00. 7	U6/L	⊃ a	3 V	=
	GWU188111	O1 N TRG SMEICLFICE	SILVER	57,100,00	16/1	0	5 >	5
	GW0 188111	OI N TOC CHETCIOTCI	MO 100	1,100	167	2	. ₹	
1,86 1,86	GW0188111	O1 N TRG SMFICIPICS	VANADILIM	13.40	7/20 NG/L	· œ	50 JA 7	>
	GU0188111	91 N TRG SMETCLPTCL		41.70	1/50	ш	4	
	GW018811T	91 N TRG SMETNOCLP	ESION	51.00	UG/L	כ		n
	640188111	91 N TRG SMETNOCLP	MIHII	20.40	1/9N	8	100 V	
	GW018811T	91 N TRG SMETNOCLP	MOLYBDENUM	14.70	UG/L	œ	200 JA 7	n
	GW018811T	91 N TRG SMETNOCLP	STRONTIUM	523.00	1/5n		200 V	
	GW018811T	91 N TRG SMETNOCLP T		25.80	ng/L	m '	200 V	
	GW018811T	91 N TRG VOCCLPICL	,1,1-TRICHLOROETHANE	νı	7/9n	- :	> :	
	GW018811T	91 N TRG VOCCLPICL	1, Z, Z-TETRACHLOKOETHANE	ח ח	7/10	> =	> >	
	GW0188111	91 N IRG VOCCLPICE	1.Z-IKICKLOKOEIHANE 1-biculoboetuane	ח ער	1671	> =	> >	
1,86	GW0100111	91 N TRG VOCCLPTCL	1, 1-DICHLORDEINAME	י ויי	1/80) =	• >	
	CU0188111	91 N TRG VOCCIPICI	2-DICHLOROFIHANE	'n	1/20) =	>	
	640188111	-OCT-91 N TRG VOCCLPICE	. 2-DICHLOROETHENE	'n	UG/L		> 5	
1486 GW	GW018811T	91 N TRG VOCCLPTCL	1,2-DICHLUROPROPANE	5	UG/L	>	> 5	
	GW018811T	91 N TRG VOCCLPTCL	BUTANONE	10	UG/L	⊃	70 V	
	GW018811T	91 N TRG VOCCLPTCL	-HEXANONE	9	UG/L	> :	> 0 .	
1486 GW	GW0188111	91 N TRG VOCCLPICL	-METHYL-Z-PENIANONE	25	1/9/L	> =	> > >	
	GWU188111	O1 N TRG VOCCLPICE	ACELONE	- r	16/1) =	- >	
	GU018811T	O1 N TRG VOCCIPIC	BENEFICE RECAID TOUR OROWETHANE	, L	16/1	=	>	
1486 GW	GW0188111	91 N TRG VOCCLPTC	ROMOFORM	'n	UG/L	· ⊃	> 5	
	GW018811T	91 N TRG VOCCLPTC	ROMOMETHANE	10	1/50	⊃	10 v	
1486 GW	GW018811T	91 N TRG VOCCLPTC	ARBON DISULFIDE	S	UG/L)	> :	
	GW018811T	91 N TRG VOCCLPTC	ARBON TETRACHLORIDE	Λu	UG/L	> =	> >	
1486 64	GWU188111	91 N IRG VOCCLPIC	HONOBENZENE US OBOSTUANS	٠ -	16/1	> =	> > >	
	GW0100111	91 N TRG VOCCLETIC	CHLOROFORM	5 m	7,50 UG/L	-	• >	
1486 GV	GW0188111	91 N TRG VOCCLPTC	HLOROMETHANE	, e	1/9n	· ⊃	10 V	
1486 GW	GW018811T	91 N TRG VOCCLPTC	DIBROMOCHLOROMETHANE	2	UG/L	-	> 5	
	GW0188111	91 N TRG VOCCLPTCL	ETHYLBENZENE	ı, ı	NG/L	> :	>:	
1486 GW	GW018811T	91 N TRG VOCCLPTCL	LETHYLENE CHLORIDE	ייי	7/50	> :	> :	
	GW018811T	91 N TRG VOCCLPICE	TYRENE Erroachi Opperuene	ח ע	7/90	> =	> >	
1,86	GWU 188111	O1 N TRG VOCCLPICE	TO LEVE	יש ה	116/1	> =	> >	
	GU0188111	OIN TRE VOCCIPIC	OTAL XYIFNES	'n	7/50 NG/L) <u> </u>	· >	
1486 GW	GW018811T	1 N TRG VOCCLPTCL	TRICHLOROETHENE	. 2	1/90	-	> 5	
	GW018811T	91 N TRG VOCCLPTCL	INYL ACETATE	5	UG/L	> :	70 <	
1486 GW	GW018811T	91 N TRG VOCCLPTCL	/INYL CHLORIDE	2,	7/20 06/L	> =	> > >	
	111001040	YIN IRG VOCLEPICE	18-1, 3-Diencuror rot ene	`)	•	

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Chemical	trans-1,3-DICHLOROPROPENE BICARBONATE AS CACO3 CARBONATE AS CACO3 CHLORIDE FLUORIDE NITRATE/NITRITE OKTHOPHOSPHATE SILICA, DISSOLVED SULFATE TOTAL DISSOLVED	TRITIUM URANIUM-233,-234 URANIUM-235 URANIUM-238 AMERICIUM-241 PLUTONIUM-239/240 STRONTIUM-89,90 URANIUM-233,-234 URANIUM-235 URANIUM-235	PLUTON IUM - 239/240 TRITIUM URANIUM - 233, - 234 URANIUM - 235 URANIUM - 235 URANIUM - 236 GROSS ALPHA - DISSOLVED PLUTON IUM - 239/240 GROSS BETA - DISSOLVED GROSS BETA - DISSOLVED TRITIUM URANIUM - 235 URANIUM - 237 TETTUM - 239/240 PLUTON IUM - 239/240 1, 1, 1 - TRICHLORGETHANE	1,1,2-TRICHLOROETHANE 1,1-DICHLOROETHANE 1,2-DICHLOROETHANE 1,2-DICHLOROETHANE 1,2-DICHLOROETHANE 1,2-DICHLOROETHANE 2-BUTANONE 2-BUTANONE 2-HEXANONE 2-HEXANONE 2-HEXANONE RACTONE BENZEN BENZEN BROMOFICHLOROMETHANE BROMOFICHLOROMETHANE CARBON DISULFIDE CARBON TETRACHLORIDE CHLOROBENZENE
1D Group	TRG WOP TRG WOP TRG WOP TRG WOP TRG WOP TRG WOP TRG WOP	N N DUP DRADS N DUP DRADS N DUP DRADS N DUP DRADS N DUP TRADS N TRG DRADS	TRG TRADS TRG DRADS TRG DRADS TRG DRADS TRG DRADS TRG TRADS DUP DRADS DUP TRADS TRG DRADS TRG TRADS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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VDET

Location S	ST QC	Sample Number	Smpl Date D	ID Group	-	Chemical	Result	Unit	Error	oual	D.LMT VA RN1 RN2 RN3 RN4	RN4 VResult	Voual VDET
1686 1686 0		11	15-MAR-91 N	99		CHLOROETHANE CHLOROFORM	10 5	1/9n ne/r		> >	10.00 V 5.000 V		
	GW REAL	GW0097411	15-MAR-91 N	TRG VOC	ฮ :	CHLOROMETHANE DIRROMOCHIOROMETHANE	우	7/9/ 1/9/1			10.00 v		
	REAL		15-MAR-91 N	TRG VOC		ETHYLBENZENE	ı CO	UG/L			2.000 v		
	REAL	 	15-MAR-91 N	TRG VOC		METHYLENE CHLORIDE STYRENE	75	790			5.000 A 5.000 V		
	GV REAL	: = :	15-MAR-91 N	TRG VOC		TETRACHLOROETHENE	ı,	75 100		> :	5.000 V		
		GN0097411 GU0097417	15-MAR-91 N	TRG VOC		IOLOENE TOTAL XYI FNFS	ח ער	7,90			>,000 V		
			15-MAR-91 N	TRG VOC		TRICHLOROETHENE	'n	7,50 NG/L			5.000 v		
		<u></u>	15-MAR-91 A	TRG VOC		VINYL ACETATE	29	7/9n			10.00 v		
	GW REAL	GW0097411 GW0097411	15-MAR-91 N	TRG VOC		VINYL CHLORIDE cis-1.3-DICHLOROPROPENE	2 ∽	7,50		> >	10.00 V 5.000 V		
			15-MAR-91 N			trans-1,3-DICHLOROPROPENE	'n			_			
		20911	23-APR-91 N		۔ یہ	ALUMINUM	59.00			60 0	200.0 JA 7		Þ
9891	SV KEAL	GW0120911	23-APR-91 1	TRG DMF		ARSENIC	2.00				10.00 <		
		2091T	23-APR-91 N	TRG DME		BARIUM	15.70				200.0 v		
	α ı	20911	23-APR-91 N	TRG DME		BERYLLIUM	 9.0	7/9n		> =	5.000 V		
	CM KEAL	GW0120911	23-APK-91	A TRG DMET	CLPIAL		144000-00				5000 V		
	GW REAL	20911	23-APR-91 A		CLPTAL	CHROMIUM	8.20				10.00 JA 7		ם
	GW REAL	20917	23-APR-91 N		CLPTAL	COBALT	3.00			> :	50.00 V		
1686		20911	23-APR-91	Z :	CLPTAL	COPPER	11.00				25.00 V		=
	SW REAL	GW0120911	23-APK-91 1	TPC DMC	EICLPIAL ETCIPTAL	IXON	100				<u> </u>		5
		20911	23-APR-91 N		ETCLPTAL	MAGNESIUM	45600.00				5000. V		
	~	20917	23-APR-91		TAL	MANGANESE	62.10				15.00 v		
		20911	23-APR-91		4	MERCURY	0.20	1/5/ NG/L		-	0.200 V		
		2091T	23-APR-91	N TRG DME	TAL	NICKEL	3.00	7/90		2	40.00 V		
1686	GW KEAL	1_	23-APK-91		CLPIAL	POLASSION OFFIER TEM	200.00			25	5 000 JA 12 14		
		20911	23-APR-91			SILVER	2.00				: : : >		
		GW0120917	23-APR-91	N (RG DME			264000.00	1/9n			>		
		GW0120917	23-APR-91			THALLIUM	1.00			M 3:	10.00 JA 12 14		
		20911	23-APR-91	N TRG DM	_		00.8	7/90		5 a	20.00 4		
1686	GV REAL		23-APR-91	N TRG DAT	DMETNOCLP	CESIUM	112.00	7 70		⊂ ہ	1000. V 56	110	0
		GW012091T	23-APR-91	N TRG DM	DMETNOCLP	ITHIUM	117.00	UG/L			. >)	l
	GW REAL	GW012091T	23-APR-91	N TRG DM	DMETNOCLP	I	2.50	UG/L		8	200.0 v		
1686		GW0120917	23-APR-91	N TRG DM	DMETNOCLP	STRONTIUM	1970.00	790		=	ν ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο ο		
	CU PEAL	GU0120911		1 A C	SMETCLYTCL	RICH! ORDETHANE	,,,,	167		, =	د >		
	GW REAL	GW012091T		N TRG VO		,2,2-TET	'n	7/9n		· ⊃	5.000 v		
		GW012091T		TRG	ر ت	1,1,2-TRICHLOROETHANE	ı, ı	7/9n		ɔ :	5.000 V		
		GW0120917		N TRG VO	ರ ಕ	1,1-DICHLOROETHANE	יי ע	750		-	5.000 V		
	GW KEAL	GW0120911		אר פי	VOCCLP ICL	1,1-DICHLOROEIHENE 1 2-DICHIOROFTHANE	Ų	7,91		> =	> 000 S		
1686		20911	23-APR-91	N TRG VO	; ,	1,2-DICHLOROETHENE	'n	7/50 NG/L			5.000 V		
	œ	20911	23-APR-91	N TRG VO	ᆸ	1,2-DICHLOROPROPANE	ν,	UG/L)	5.000 V		
	GW REAL	20911	23-APR-91	N TRG VO	ರ ಕ	2-BUTANONE	0 ;	797 1007		- :	10.00 V		
1686	GV REAL		23-APR-91	N TRG VO	VOCCLPTCL	Z-HEXANONE 4-METHYL-2-PFNTANONF	20	7/90		- -	10.00 V		
	· ~	GW012091T	23-APR-91	N TRG VO	; ;	ACETONE	10	1/50		ח	10.00 R 41		
	~ :	GW0120917	23-APR-91	N TRG VO	ದ ಕ	BENZENE	LΩι	7/9n		- :			
1686	GW REAL	GW012091T	25-APR-91	N TRG VO	VOCCLPICL	BROMODICHLOROMETHANE BROMOEORM	Λư	750		- =	> 000 ×		
1686		GW0120911	23-APR-91	-	5 5	BROMOMETHANE	, <u>c</u>	7/50 06/L))	10.00 V		
1686	~	GW0120917	23-APR-91	G	7	CARBON DISULFIDE	īV.	1/9n)	>		
1686 1686		GW0120911	23-APR-91			CARBON TETRACHLORIDE	vv	790		> =	5.000 R 41		
1686	GW REAL	20911	23-APR-91	N TRG VO	; ;	CHLOROETHANE	,0	7/50 NG/1) –	10.00 v		

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Result	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	6.822 6.822 1.959 7.814 6.129 -46.3 -3855 .01101 .167	1320.00 44.70 5.00 95.40 1.00 2.70 132000.	12.50 2.00 2.00 3.00 32000.00 3730.00 0.20 24.50 2.00 173000.00	1.00 9.20 26.70 51.00 16.60 5.90 788.00
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	RM THANE HLCROMETHANE ZENE E CHLORIDE OROETHENE ETATE LORIDE DICHLOROPROPENE 3-DICHLOROPROPENE ATE AS CACG3 E AS CACG3 E AS CACG3 SSOLVED SSOLVED	- DISSOLVED - DISS			
	HANE LOROMETHANE ENE CHLORIDE CHLORIDE ROETHENE FINE TATE ORIDE ORIDE ORIDE ICHLOROPROP ICHLOROPROP ICH CROOPROP ICH CROOP	14 - DISSE 14 - DISSE 18, 90 13, -234 15, 89, 90 15, -234 15, -234 15, -234 16, -234 17, -234 18, -234 18, -234 18, -234			
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ical	CHLOROFORM CHLOROMETY CHLOROMETY CHLOROMETY CHENZ ETYYLENE STYRENE TOTAL XYLL TOTAL XYLL TOTAL XYLL TOTAL XYLL COLORN TOTAL XYLL TOTAL XYLL COLORN TOTAL CARBONATE CHLORIDE CHLORIDE CHLORIDE CHLORIDE CHLORIDE CHLORIDE CHLORIDE TOTAL SULFATE TOTAL DISSI	S BET S BET I UM S BET I UM S BET I UM S I U U U M S I U U U M S I U U U M S I U U U M S I U U U U M S I U U U M S I U U U M S I U U U M S I U U U M S I U U U M S I U U U U M S I U U U U M S I U U U U M S I U U U U M S I U U U U M S I U U U U U M S I U U U U U U U U U U U U U U U U U U	ALUMINUM ANTIMONY ARSENIC BARTUM BERYLLIUM CADMIUM CALCIUM	CCOBALT CCOBALT COPPER CYANIDE IRON LEAD MAGNESIUM MANGANESE NICKEL NICKEL POTASSIUM SELENIUM SILVER SODIUM	THALLIUM VANADIUM ZINC CESIUM LITHIUM MOLYBDENUN STRONTIUM
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GW REAL GWOT		-91 N TRG VOCCLPICL	1, 1, 2, 2-TETRACHLOROETHANE	ı,	790		> :	>:	
GW REAL		VOCCLPTCL	1,1,2-TRICHLOROETHANE	~ u	75		> :	> >	
1660 6W REAL GWU163011		-91 M TRG VOCCLPICE	1,1-01CALONOEIAANE 1 1-01CALONOEIAENE	יו ר	7 2		> =	> >	
GW REAL GWO!		-91 N TRG VOCCLPTCL	1,2-DICHLOROETHANE	'n	7 1/90		,	. >	
GW REAL GW01		-91 N TRG VOCCLPTCL	1, 2-DICHLOROPROPANE	Z.	UG/L		-	2 <	
REAL GW01	J	-91 N TRG	2-BUTANONE	10	1/9n		-	10 V	
GW REAL GWOT		-91 N TRG		2 :	7/9n		- :	10 V	
GW REAL GW01		-91 N TRG	4-METHYL-2-PENTANONE	2	75		> :) 0. 	
GW REAL GW01		-91 N TRG	ACETONE	≥.	7.5		> :	>:	
GW REAL GWOT		-91 N TRG		~ 1	76/L)	> ;	
REAL		08-DCI-91 N IRG VOCCLPICE	BROWDED I CHLUKUME I HANE	U T	75		> =	> >	
CAN KEAL GAO		201 20 10	BROTOGRA	٠÷	7/50		> =	> C	-
GW KEAL GWO!		-01 x 10-	CARRON DISHIFTDE	- . .	187		, =	- > C	
GU RFAI		-91 N TRG	CARBON TETRACHLORIDE	'n	16/1 UG/L		· >	>	
GW REAL		-91 N TRG	CHLOROBENZENE	'n	UG/L		-	> 5	
GW REAL	_	-91 N TRG	CHLOROETHANE	10	UG/L		>	10 v	
GW REAL		08-OCT-91 N TRG VOCCLPTCL	CHLOROFORM	5	UG/L		>	2 <	
GW REAL		-91 N TRG	CHLOROMETHANE	10	UG/L		>	10 V	
REAL	_	-91 N TRG	DIBROMOCHLOROMETHANE	ın:	UG/L		>	>	
GW REAL		-91 N TRG	ETHYLBENZENE	ın ı	7/5/ 106/1		> :	> :	
GW REAL		-91 N TRG	METHYLENE CHLORIDE	ı, n	ng/L		-	> 2	
REAL		-91 N TRG	STYRENE	Λ ι	75		> :	> :	
GW REAL		-91 N TRG	TETRACHLOROETHENE	Λ ι	7 S		> :	> :	
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GW REAL		IN THE VOCELPI	TOTAL ATLENES	О П	7 5		> =	> >	
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CW ACAL		-01 N TBG	3-015		1/8		> =	• >	
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CU PEAL		-01 N TRG	1,10	, IC	1/91		=	· >	
100 MEAN U.S.		-01 N TRG	714	360	WG/L)	, O-1	
REAL		-91 N TRG	CARBONATE AS CACO3		MG/L		-	· ^	
GW REAL		1 N TRG	CHLORIDE	210	MG/L			0.2 v	
GW REAL		1 N TRG	FLUORIDE	7.0	MG/L			0.1 v	
GW REAL		N TRG	NITRATE/NITRITE	6.0	MG/L			0.02 V	
GW REAL		N TRG	HdS	0.01	HG/L		-	0.01 V	
GW REAL		Z - Z - Z - Z - Z - Z - Z - Z - Z - Z -	SILICA, DISSOLVED	9.7	MG/L			^ *.c	
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3	11-02-0845	TRG	GROSS BETA - SUSPENDED	1.43		0.76		R 18 32 99	
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1686 GW G-1686-05	11-02-0845		URANIUM-235	0.1			_	6070788	
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Date D ID Group	AR-90 N TRG TRADS AR-90 N TRG DRADS AR-90 N TRG DRADS UL-90 N TRG DRADS ARR-91 N TRG DRADS UL-91 N TRG TRADS
ocation ST QC Sample Number	6 GW REAL G148603 6 GW REAL GW0003 6 GW REAL GW0012 6 GW REAL GW012 6 GW REAL GW012 6 GW REAL GW012 6 GW REAL GW012 6 GW REAL GW013 6 GW REAL GW003 6 GW REAL GW003 6 GW REAL GW003 6 GW REAL GW003 6 GW REAL GW0

Location ST QC	Sample Number	Smpl Date D ID Group	Chemical	Result	Unit	Error	Qual	D.LMT VA RN1	RNZ	RN3 RN4 VResult	Voual VDET
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555555555555555555555555555555555555555		20000000000000000000000000000000000000	PLUTONIUM-239/240 CESIUM STRONTIUM-89, 90 AMERICIUM-241 CESIUM-137 GROSS ALPHA - SUSPENDED GROSS BETA PARTICLE RADIOACTIV PLUTONIUM-239/240 URANIUM-233, -234 URANIUM-235/236	0.03 0.00 0.00 0.00 0.00 0.00 0.00 0.00		1.00261 1.00261 1.0044002 1.1578192 1.375144 1.1678192 1.375144 1.1678192 1.375144 1.1678192 1.16781	רו	.01 R 0.007 4.94 2.98 0.006 0.005 0.005 0.005	88 89 89	85	
888888888888888888888888888888888888888	REAL GW0036617	990 N TRG	GROSS ALPHA - DISSOLVED GROSS BETA - DISSOLVED STRONTIUM-89,90 TRITIUM URANIUM-233,-234 URANIUM-235 URANIUM-238 AMERICIUM-241 CESIUM-137 PLUTONIUM-239/240	3.625 4.813 201 499.9 .2829 0 .2021 .007199 .3879	777777777 7777777777777777777777777777	3.44 11.43 2.27 2.32 2.32 2.52 1.52 2.04 0.00779	-	2 4 4 6 4 6 6 4 6 6 6 6 6 6 6 6 6 6 6 6			
555555555555555555555555555555555555555		900 N TRG 900 N TRG 900 N TRG 900 N TRG 900 N TRG 900 N TRG	BETA 10M-8 10M-23 10M-23 110M-23	6.722 .6241 .6241 .16.6 .335 .08906 .002618 .123		2.68 2.68 339 194 2.26 1.145 1.138 2.415		400 v 78 .6 .6 .6 .01	25 %		
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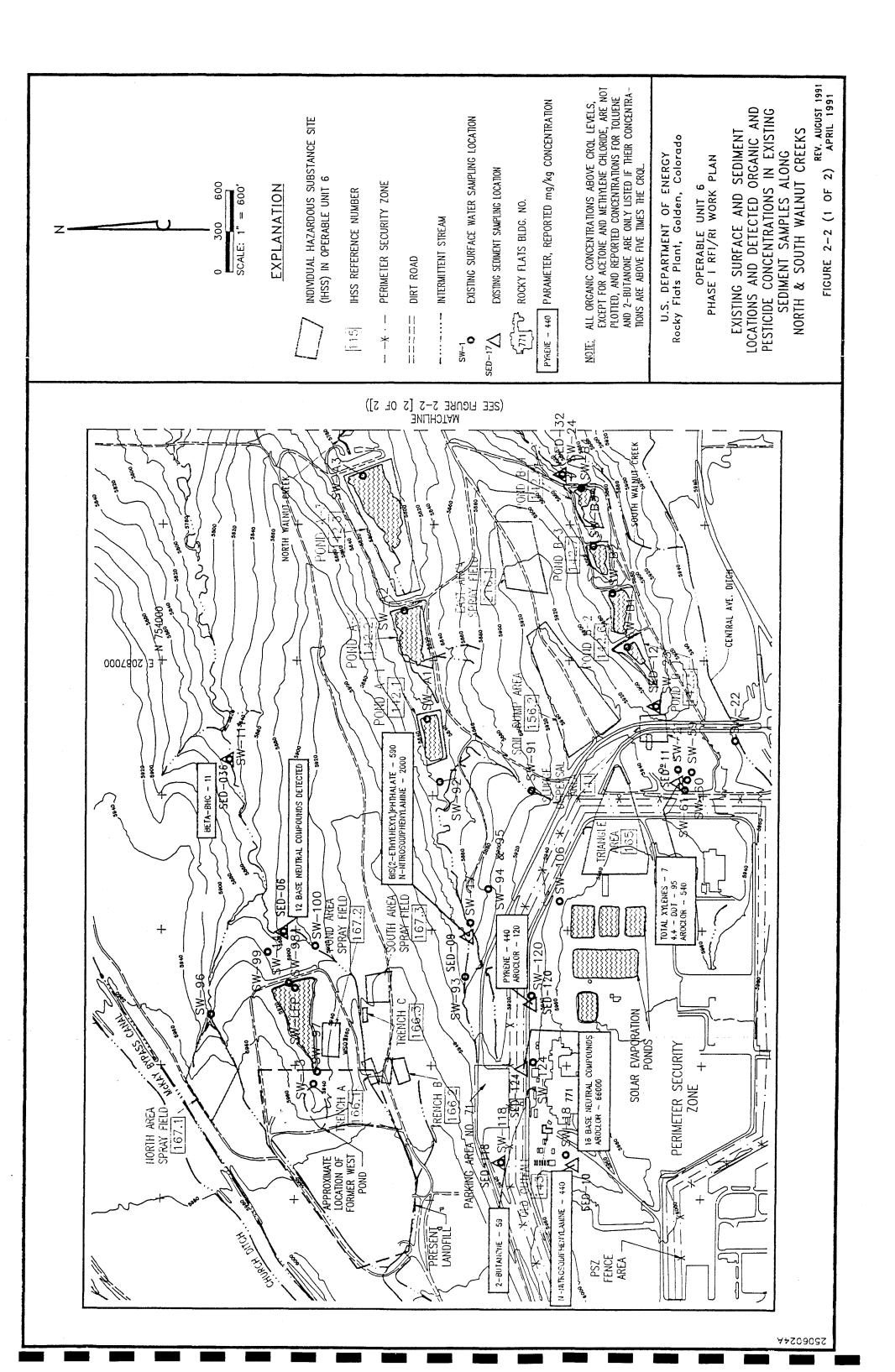
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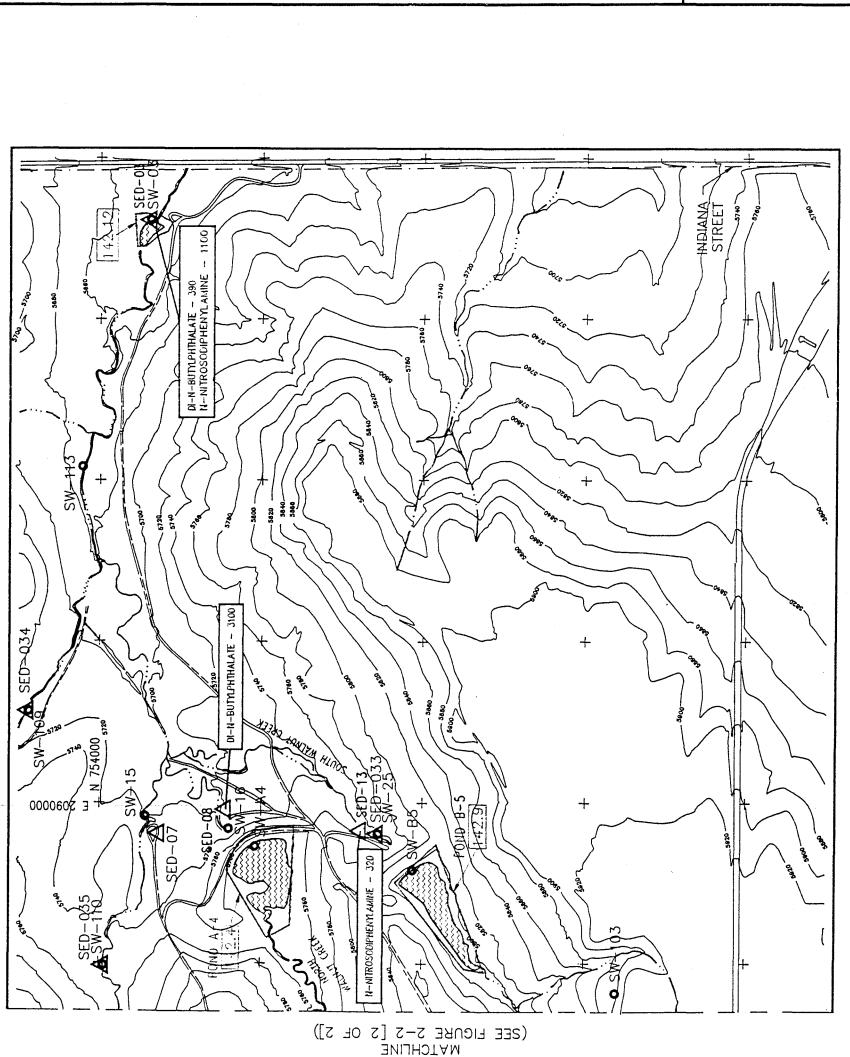
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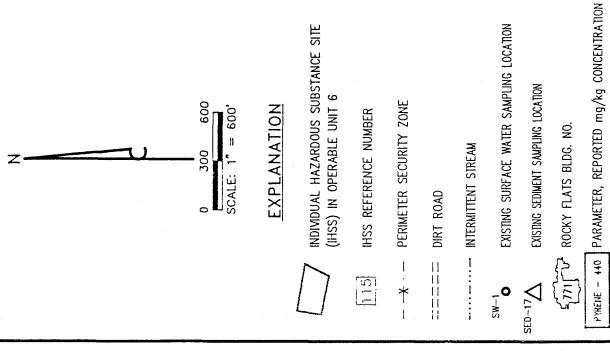
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ORTHOPHOSPHATE
SILICA, DISSOLVED
SULFATE
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TOTAL SUSPENDED
TOTAL SUSPENDED
FLUORIDE
FLUORIDE
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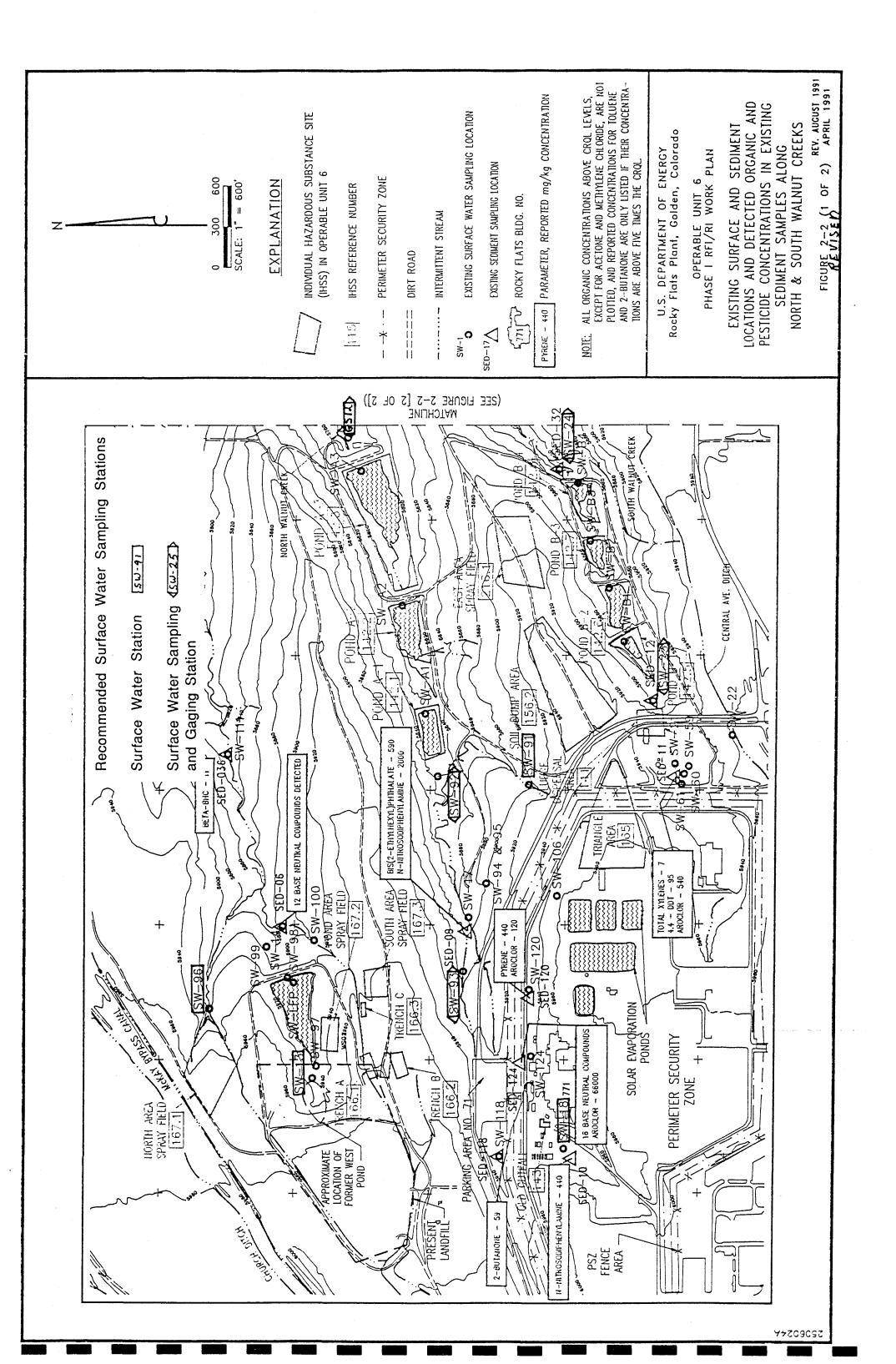


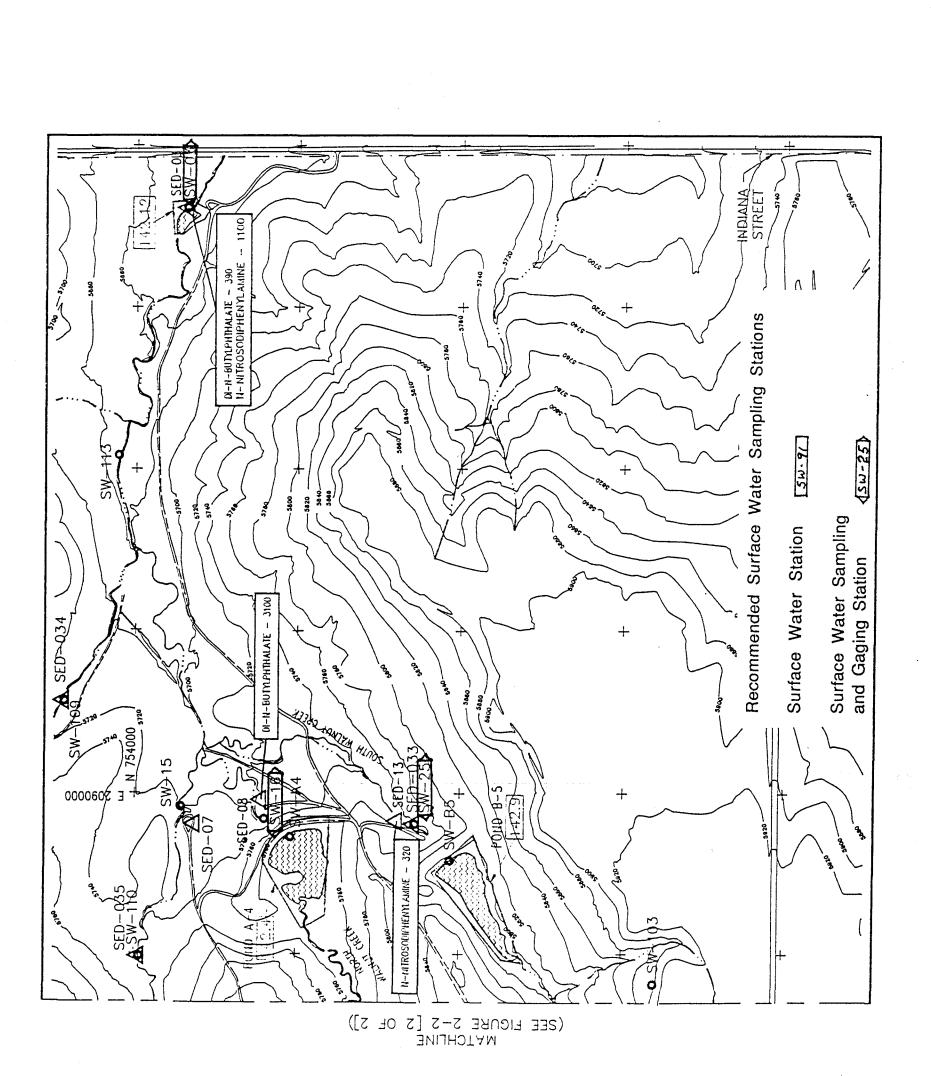
NOTE: ALL ORGANIC CONCENTRATIONS ABOVE CROL LEVELS, EXCEPT FOR ACTONE AND METHYLENE CHLORIDE, ARE NOT PLOTTED, AND REPORTED CONCENTRATIONS FOR TOLUENE AND 2-BUTANONE ARE ONLY LISTED IF THEIR CONCENTRATIONS ARE ABOVE FIVE TIMES THE CROL.

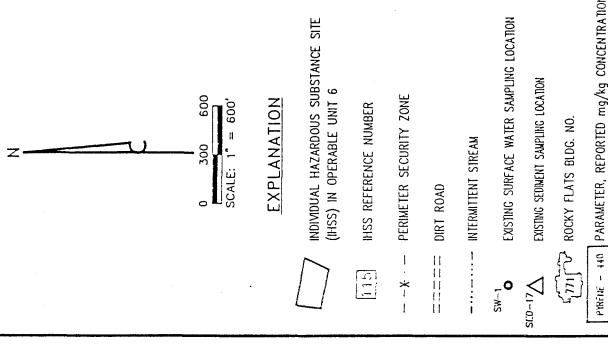
U.S. DEPARTMENT OF ENERGY Rocky Flats Plant, Golden, Colorado

OPERABLE UNIT 6 PHASE I RFI/RI WORK PLAN EXISTING SURFACE AND SEDIMENT LOCATIONS AND DETECTED ORGANIC AND PESTICIDE CONCENTRATIONS IN EXISTING SEDIMENT SAMPLES ALONG NORTH & SOUTH WALNUT CREEKS

REV. AUGUST 1991 FIGURE 2-2 (2 OF 2) APRIL 1991







PYREINE - 140 PARAMETER, REPORTED mg/kg CONCENTRATION

NOTE: ALL ORGANIC CONCENTRATIONS ABOVE CROL LEVELS, EXCEPT FOR ACETONE AND METHYLENE CHLORIDE, ARE NOT PLOTTED, AND REPORTED CONCENTRATIONS FOR TOLUGHE AND 2-BUTANONE ARE ONLY LISTED IF THEIR CONCENTRATIONS ARE ABOVE FIVE TIMES THE CROL.

U.S. DEPARTMENT OF ENERGY Rocky Flats Plant, Golden, Colorado

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EXISTING SURFACE AND SEDIMENT LOCATIONS AND DETECTED ORGANIC AND PESTICIDE CONCENTRATIONS IN EXISTING SEDIMENT SAMPLES ALONG NORTH & SOUTH WALNUT CREEKS

IGURE 2-2 (2 OF 2) APRIL 1991

